

Immunization Update 2004

**Satellite Conference
Wednesday, June 9, 2004
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Produced by the Alabama Department of Public Health
Video Communications Division

Faculty

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Objectives

1. Describe appropriate storage and handling procedures for vaccines during and after clinic hours.
2. Describe the Alabama Department of Public Health policy in the use of safety needles.
3. Utilize appropriate ADPH Immunization policies when vaccinating children and adults in county health department clinics.

General Vaccine Rules

- Four-day grace period for vaccines administered at the inappropriate age or interval
- Check the package insert to determine vaccine components and latex content of stoppers and plungers

General Vaccine Rules

- When combination vaccines are used, individual Vaccine Information Statements must be given
- All vaccines due at a visit are to be administered simultaneously at separate anatomical sites

Required Forms for Vaccine Administration

- Screening Questionnaire
- Vaccine Information Statements
- Post Immunization Form
- Personal Immunization Record
- Alabama Certificate of Immunization

Vaccine Storage

- Refrigerate at 35-46°
MMR, DTaP, DT, Td, IPV, HepB,
Influenza, PCV7, PPV23, and Hib
- Freeze at $\leq 5^{\circ}$
Varicella

Diphtheria, Tetanus and Pertussis Vaccine

- Five-dose series administered at 2, 4, 6, and 12 months of age with a booster dose at 4-6 years of age
- Fourth dose should be administered on or after the 1st birthday and 6 months after the 3rd dose
- If the 4th dose of DTaP vaccine is administered after the 4th birthday, a 5th dose is not needed

Contraindications to Vaccination with DTaP Vaccine

- Immediate anaphylactic reaction
- Encephalopathy not attributable to another cause

Precautions to Vaccination with DTaP Vaccine

- Temperature $\geq 105^{\circ}$ within 48 hours of vaccine
- Collapse or shock-like state within 48 hours of vaccine
- Persistent crying lasting ≥ 3 hours within 48 hours of vaccine
- Convulsions with or without a fever within 3 days of vaccine

DTaP Vaccines

- Infanrix (Glaxo SmithKline)
- Daptacel (Aventis)
- Tripedia (Aventis)

Combination Vaccines Containing DTaP

- Pediarix (DTaP/HepB/IPV)
Not used by ADPH Clinics
- TriHIBit (DTaP/Hib)
Only used for the fourth dose in the DTaP series if an additional dose of Hib vaccine needed

Pediatric Diphtheria/Tetanus Vaccine

- For children up to 7 years of age for whom pertussis vaccine is contraindicated
- Must consult primary medical provider before administration

Adult Tetanus/Diphtheria Vaccine

- Should be administered every 10 years following the preschool booster of DTaP vaccine
- Administer after an injury if ≥ 5 years have passed since the last dose

***Haemophilus Influenzae* Type B Vaccine**

- ActHIB (Aventis) is the only Hib vaccine available to county health departments
- Administered at 2, 4, 6 and 12 months of age
- Not to be administered to children before 6 weeks of age or after the 5th birthday

Hib Vaccine for Immunocompromised Persons

- May be administered to persons ≥ 5 years of age who are at risk for invasive Hib disease and who have a physician's order

PedvaxHIB and Comvax

- Manufactured by Merck
- Comvax is a combination of PedvaxHIB and Recombivax Hepatitis B Vaccine
- Not available for use in county health departments
- Unique 3-dose schedule

Hepatitis B Vaccine

- Administered to all children and adolescents 0-18 years of age
- Patients who began the series prior to their 19th birthday may complete the series if they have not turned 20
- May be administered to patients 19 years of age and older who are on Medicaid and at-risk

Optimum Schedule for Hepatitis B Vaccine

- Birth
- 1-2 months (first clinic visit)
- 6 months

Alternative Schedules for Hepatitis B Vaccine

- For patients older than 6 months of age:
0, 1, 6
- Accelerated Schedule:
0, 1-2, 4

Hepatitis B Vaccine Formulations

- Engerix B (Glaxo SmithKline)
Pediatric/Adolescent: 0-19 years of age
Adult: ≥ 20 years of age
- Recombivax HB (Merck)
Pediatric/Adolescent: 0-19 years of age
Adult: ≥ 20 years of age

Measles, Mumps and Rubella Vaccine

May be administered to:

- Children 12 months – 18 years of age
- Those seeking vaccine for college entry
- Family planning and postpartum patients who lack documentation of one dose of rubella-containing vaccine or a positive rubella titer

MMR Vaccine

- Administered as a 2 dose series
- Usually administered at 12 months and 4-6 years

Pneumococcal Conjugate Vaccine (PCV7)

- Usually administered as a 4-dose series to children 2 months to 5 years of age
- Due to shortage:
 - Two doses may be administered to healthy children 2-12 months of age
 - One dose may be administered to healthy children 12-23 months of age
 - The complete series may be administered to children at increased risk of severe disease

Conditions That Place Children at Risk for Severe Pneumococcal Disease

- Sickle cell disease and other sickle cell hemoglobinopathies
- Asplenia
- HIV
- Chronic diseases of the lung or heart, diabetes, and cerebrospinal fluid leaks
- Immunocompromising conditions
- Cochlear implants

Pneumococcal Polysaccharide Vaccine (PPV23)

Recommended for persons:

- 65 years of age and older
- 2-64 years of age with chronic cardiovascular or pulmonary disease, diabetes, alcoholism, chronic liver disease, cerebrospinal fluid leaks, asplenia
- 2 years of age and older who are immunocompromised

PPV23

- May be administered year-round
- Should routinely be administered to children at increased risk for severe disease
- Booster dose is recommended only in certain circumstances. A third dose is not recommended

Polio Vaccine

- Subcutaneous injection administered at 2, 4, and 6-12 months of age
- If the 3rd dose is administered after the 4th birthday, a 4th dose is not needed
- Primary vaccination for persons ≥ 18 years of age is not routinely recommended except for international travel

Varicella Vaccine

- Routinely administered as a single dose at 12 months of age
- May be administered to:
 - Susceptible children 12 months through 18 years of age
 - Adults who have a negative varicella titer from an outside provider
 - Persons vaccinated for the first time when ≥ 13 years of age should receive 2 doses separated by 1 month

Influenza Vaccine Recommendations

- Those at increased risk for complications, including:
 - persons aged ≥ 65 years
 - residents of nursing homes
 - adults and children with chronic pulmonary or cardiovascular disorders

Influenza Vaccine Recommendations

- Those at increased risk for complications, including:
 - adults and children with chronic metabolic disease, renal dysfunction, hemoglobinopathies, or immunosuppression
 - children and adolescents who are receiving long-term aspirin therapy
 - children aged 6 through 23 months of age

Influenza Vaccine Recommendations

- Persons 50 through 64 years of age
- Persons who can transmit influenza to those at high risk, including:
 - healthcare workers
 - employees of nursing homes and chronic-care facilities

Influenza Vaccine Recommendations

- Persons who can transmit influenza to those at high risk, including:
 - employees of assisted living centers
 - persons who provide home care to persons in groups at high risk
 - household contacts of persons in groups at high risk

Influenza Vaccine to be Supplied to County Health Departments

- Fluzone (Aventis) will be supplied in two formulations
- Preservative-free vaccine for children 6 through 35 months of age
- Thimerosal-containing for persons \geq 3 years of age

Influenza Vaccine Provided by the Vaccines For Children Program

- For children, birth through 18 years of age who are on Medicaid, are American Indian or Alaskan Native, or are uninsured
- County health departments must assess for VFC eligibility
- Vaccine will be clearly marked with a yellow VFC sticker

Upcoming Programs

For a complete listing of all programs, visit our website:

www.adph.org/alphtn